

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R974 9744 - Swing Drive

Sample No: LH0260186

Oil Type: GEAR OIL SAE 75W90



**Gerdau - Mandak Metal Processors Ltd.,**  
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 Selkirk, MB  
 CA R1A 2B3  
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#### SAMPLE INFORMATION

Sample Number	LH0260186	LH0242784	---	---
Sample Date	03 Aug 2023	31 Jan 2023	---	---
Machine Hours	0	0	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---



#### OIL CONDITION

Visc @ 40°C	cSt	105	99.6	---	---
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#### CONTAMINATION

Silicon	ppm	2	2	---	---
Sodium	ppm	2	<1	---	---
Potassium	ppm	1	<1	---	---



#### WEAR METALS

Iron	ppm	64	65	---	---
Copper	ppm	5	3	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	1	0	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

Calcium	ppm	29	2	---	---
Magnesium	ppm	22	1	---	---
Zinc	ppm	33	3	---	---
Phosphorus	ppm	1086	1546	---	---
Barium	ppm	0	0	---	---
Boron	ppm	139	244	---	---

#### Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 75W90. Please confirm. All component wear rates are normal. There is a moderate concentration of water present in the oil. Free water present. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** MANSEL  
**Unique No:** 5631964  
**Signed:** Kevin Marson  
**Report Date:** 29 Aug 2023



### GRAPHS

